

Serial Number: 09/576,101

Changed a file from non-ASCII to ASCII

ENTERED

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

Edited a formal error in the Current Application Data section, specifically: PTT/10 Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____. Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: _____ Deleted extra, invalid, headings used by an applicant, specifically: _____ Deleted: non-ASCII "garbage" at the beginning/end of files; secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as: _____ Inserted mandatory headings, specifically: _____ Corrected an obvious error in the response, specifically: _____ Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: _____ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length" field accordingly (error due to a PatentIn bug). Sequences corrected: _____ Other: replaced C1407 and C1417 (extra) and C1502 and C1512

Examiner: The above corrections must be communicated to the applicant in the first Office
 Action. DO NOT send a copy of this form.

31795

RAW SEQUENCE LISTING DATE: 08/09/2001
PATENT APPLICATION: US/09/576,101 TIME: 17:05:29

Input Set : A:\Pto.amc
Output Set: N:\CRF3\08092001\I576101.raw

3 <110> APPLICANT: Suhrbier, Andreas
4 Thomson, Scott Anthony
5 Khanna, Rajiv
6 Burrows, Scott Renton
7 Coupar, Barbara Elizabeth Howieson
8 Moss, Denis James
10 <120> TITLE OF INVENTION: Polyepitope Vaccines
12 <130> FILE REFERENCE: FBRC:004USCI
14 <140> CURRENT APPLICATION NUMBER: 09/576,101
15 <141> CURRENT FILING DATE: 2000-05-22
17 <150> PRIOR APPLICATION NUMBER: 08/776,337
18 <151> PRIOR FILING DATE: 1997-01-27
20 <160> NUMBER OF SEQ ID NOS: 26
22 <170> SOFTWARE: PatentIn Ver. 2.1
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 9
26 <212> TYPE: PRT
27 <213> ORGANISM: Artificial Sequence
29 <220> FEATURE:
30 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
Peptide
33 <400> SEQUENCE: 1
34 Ala Ser Asn Glu Asn Met Asp Ala Met
35 1 5
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 10
40 <212> TYPE: PRT
41 <213> ORGANISM: Artificial Sequence
43 <220> FEATURE:
44 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
Peptide
47 <400> SEQUENCE: 2
48 Asp Thr Pro Leu Ile Pro Leu Thr Ile Phe
49 1 5 10
52 <210> SEQ ID NO: 3
53 <211> LENGTH: 9
54 <212> TYPE: PRT
55 <213> ORGANISM: Artificial Sequence
57 <220> FEATURE:
58 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
Peptide
61 <400> SEQUENCE: 3
62 Glu Glu Gly Ala Ile Val Gly Glu Ile
63 1 5
66 <210> SEQ ID NO: 4
67 <211> LENGTH: 10
68 <212> TYPE: PRT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/576,101

DATE: 08/09/2001
TIME: 17:05:29

Input Set : A:\Pto.amc
Output Set: N:\CRF3\08092001\I576101.raw

69 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
72 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
73 Peptide
75 <400> SEQUENCE: 4
76 Glu Glu Asn Leu Leu Asp Phe Val Arg Phe
77 1 5 10
80 <210> SEQ ID NO: 5
81 <211> LENGTH: 9
82 <212> TYPE: PRT
83 <213> ORGANISM: Artificial Sequence
85 <220> FEATURE:
86 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
87 Peptide
89 <400> SEQUENCE: 5
90 Phe Ala Pro Gly Asn Tyr Pro Ala Leu
91 1 5
94 <210> SEQ ID NO: 6
95 <211> LENGTH: 9
96 <212> TYPE: PRT
97 <213> ORGANISM: Artificial Sequence
99 <220> FEATURE:
100 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
101 Peptide
103 <400> SEQUENCE: 6
104 Phe Leu Arg Gly Arg Ala Tyr Gly Leu
105 1 5
108 <210> SEQ ID NO: 7
109 <211> LENGTH: 9
110 <212> TYPE: PRT
111 <213> ORGANISM: Artificial Sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
115 Peptide
117 <400> SEQUENCE: 7
118 His Leu Ala Ala Gln Gly Met Ala Tyr
119 1 5
122 <210> SEQ ID NO: 8
123 <211> LENGTH: 9
124 <212> TYPE: PRT
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
129 Peptide
131 <400> SEQUENCE: 8
132 Ile Val Thr Asp Phe Ser Val Ile Lys
133 1 5
136 <210> SEQ ID NO: 9
137 <211> LENGTH: 9

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/576,101

DATE: 08/09/2001
TIME: 17:05:29

Input Set : A:\Pto.amc
Output Set: N:\CRF3\08092001\I576101.raw

138 <212> TYPE: PRT
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
143 Peptide
145 <400> SEQUENCE: 9
146 Lys Glu His Val Ile Gln Asn Ala Phe
147 1 5
150 <210> SEQ ID NO: 10
151 <211> LENGTH: 97
152 <212> TYPE: PRT
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
157 Peptide
159 <400> SEQUENCE: 10
160 Met Ser Thr Asn Ser Phe Leu Arg Gly Arg Ala Tyr Gly Leu Gln Ala
161 1 5 10 15
162 Lys Trp Arg Leu Gln Thr Leu Glu Glu Asn Leu Leu Asp Phe Val Arg
163 20 25 30
164 Phe Ser Val Arg Asp Arg Leu Ala Arg Leu Lys Glu His Val Ile Gln
165 35 40 45
166 Asn Ala Phe Tyr Pro Leu His Glu Gln His Gly Met His Leu Ala Ala
167 50 55 60
168 Gln Gly Met Ala Tyr Asp Thr Pro Leu Ile Pro Leu Thr Ile Phe Ile
169 65 70 75 80
170 Val Thr Asp Phe Ser Val Ile Lys Asn Leu Val Ser Gly Pro Glu
171 85 90 95
172 His
178 <210> SEQ ID NO: 11
179 <211> LENGTH: 9
180 <212> TYPE: PRT
181 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
184 Peptide
185 <400> SEQUENCE: 11
186 Gln Ala Lys Trp Arg Leu Gln Thr Leu
187 1 5
188 <210> SEQ ID NO: 12
189 <211> LENGTH: 9
190 <212> TYPE: PRT
191 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
193 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
194 Peptide
195 <400> SEQUENCE: 12
196 Arg Pro Gln Ala Ser Gly Val Tyr Met
197 1 5
200 <210> SEQ ID NO: 13
201 <211> LENGTH: 9
202 <212> TYPE: PRT
203 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
206 Peptide
207 <400> SEQUENCE: 13
208 Arg Pro Gln Ala Ser Gly Val Tyr Met
209 1 5

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/576,101

DATE: 08/09/2001
TIME: 17:05:29

Input Set : A:\Pto.amc
Output Set: N:\CRF3\08092001\I576101.raw

210 <210> SEQ ID NO: 13
211 <211> LENGTH: 8
212 <212> TYPE: PRT
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
217 Peptide
219 <400> SEQUENCE: 13
220 Ser Asp Tyr Glu Gly Arg Leu Ile
221 5
221 1
224 <210> SEQ ID NO: 14
225 <211> LENGTH: 10
226 <212> TYPE: PRT
227 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
231 Peptide
233 <400> SEQUENCE: 14
234 Ser Gly Pro Ser Asn Thr Pro Pro Glu Ile
235 5 10
235 1
238 <210> SEQ ID NO: 15
239 <211> LENGTH: 9
240 <212> TYPE: PRT
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
245 Peptide
247 <400> SEQUENCE: 15
248 Ser Ile Ile Asn Phe Glu Glu Lys Leu
249 5
249 1
252 <210> SEQ ID NO: 16.
253 <211> LENGTH: 8
254 <212> TYPE: PRT
255 <213> ORGANISM: Artificial Sequence
257 <220> FEATURE:
258 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
259 Peptide
261 <400> SEQUENCE: 16
262 Ser Ile Ile Asn Phe Glu Lys Leu
263 5
263 1
266 <210> SEQ ID NO: 17
267 <211> LENGTH: 9
268 <212> TYPE: PRT
269 <213> ORGANISM: Artificial Sequence
271 <220> FEATURE:
272 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
273 Peptide
275 <400> SEQUENCE: 17
276 Ser Val Arg Asp Arg Leu Ala Arg Leu

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/576,101

DATE: 08/09/2001
TIME: 17:05:29

Input Set: A:\Pto.amc
Output Set: N:\CRF3\08092001\I576101.raw

277 1 5
280 <210> SEQ ID NO: 18
281 <211> LENGTH: 9
282 <212> TYPE: PRT
283 <213> ORGANISM: Artificial Sequence
285 <220> FEATURE:
286 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
287 Peptide
289 <400> SEQUENCE: 18
290 Ser Tyr Ile Pro Ser Ala Glu Lys Ile 5
291 1
294 <210> SEQ ID NO: 19
295 <211> LENGTH: 8
296 <212> TYPE: PRT
297 <213> ORGANISM: Artificial Sequence
299 <220> FEATURE:
300 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
301 Peptide
303 <400> SEQUENCE: 19
304 Thr Tyr Gln Arg Thr Arg Ala Leu 5
305 1
308 <210> SEQ ID NO: 20
309 <211> LENGTH: 9
310 <212> TYPE: PRT
311 <213> ORGANISM: Artificial Sequence
313 <220> FEATURE:
314 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
315 Peptide
317 <400> SEQUENCE: 20
318 Thr Tyr Gln Arg Thr Arg Ala Leu Val 5
319 1
322 <210> SEQ ID NO: 21
323 <211> LENGTH: 9
324 <212> TYPE: PRT
325 <213> ORGANISM: Artificial Sequence
327 <220> FEATURE:
328 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
329 Peptide
331 <400> SEQUENCE: 21
332 Tyr Pro His Phe Met Pro Thr Asn Leu
333 1 5
336 <210> SEQ ID NO: 22
337 <211> LENGTH: 9
338 <212> TYPE: PRT
339 <213> ORGANISM: Artificial Sequence
341 <220> FEATURE:
342 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
343 Peptide
345 <400> SEQUENCE: 22

8/9/01

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/576,101

DATE: 08/09/2001
TIME: 17:05:30

Input Set : A:\Pto.amc
Output Set: N:\CRF3\08092001\I576101.raw